

Title (en)  
GAS TURBINE BLADE FLUTTER MONITORING AND CONTROL SYSTEM

Title (de)  
ÜBERWACHUNGS- UND STEUERUNGSSYSTEM FÜR FLATTERN EINER GASTURBINENSCHAUFEL

Title (fr)  
SYSTÈME DE SURVEILLANCE ET DE COMMANDE DE FLOTTEMENT D'AUBE DE TURBINE À GAZ

Publication  
**EP 3387263 B1 20210407 (EN)**

Application  
**EP 15910087 A 20151211**

Priority  
CN 2015097144 W 20151211

Abstract (en)  
[origin: WO2017096613A1] A flutter control system for a turbine includes a processor. The processor is configured to detect blade flutter of a turbine. The blade flutter indicates that blades of the turbine are in a deflected position different from a nominal operating position. The processor is configured to control operational parameters of the turbine that reduce or eliminate the blade flutter to improve the reliability and efficiency of the turbine.

IPC 8 full level  
**F04D 29/66** (2006.01); **F01D 21/04** (2006.01); **F01D 25/06** (2006.01); **F02C 9/00** (2006.01); **F04D 27/02** (2006.01); **G01H 1/00** (2006.01)

CPC (source: EP US)  
**F01D 21/003** (2013.01 - US); **F01D 21/04** (2013.01 - EP US); **F01D 21/14** (2013.01 - EP US); **F01D 25/06** (2013.01 - EP US); **F02C 9/00** (2013.01 - EP US); **F04D 27/0261** (2013.01 - EP US); **F04D 29/665** (2013.01 - EP US); **G01H 1/006** (2013.01 - EP US); **G01H 13/00** (2013.01 - US); **G05B 13/042** (2013.01 - US); **F05D 2240/24** (2013.01 - US); **F05D 2260/81** (2013.01 - EP US); **F05D 2260/96** (2013.01 - EP US); **F05D 2270/11** (2013.01 - EP US); **F05D 2270/114** (2013.01 - EP US); **F05D 2270/304** (2013.01 - EP US); **F05D 2270/312** (2013.01 - US); **F05D 2270/313** (2013.01 - US); **F05D 2270/334** (2013.01 - EP US); **F05D 2270/54** (2013.01 - US); **F05D 2270/71** (2013.01 - EP US); **Y02B 30/70** (2013.01 - EP)

Citation (examination)  
US 2014156165 A1 20140605 - EWENS DAVID SPENCER [US], et al

Designated contracting state (EPC)  
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